

## AWIPS SYSTEM MODIFICATION NOTE 1 (for Electronic Systems Analysts)

Engineering Division

W/OSO321: FJZ

**SUBJECT** : LDAD Dual-Dial Modem Cards and Cables Installation Procedure**PURPOSE** : To provide instructions for additional modem card, patch cable and data cable installation.**EQUIPMENT AFFECTED** : Advanced Weather Interactive Processing System (AWIPS) Modem Nest at all PACE sites, CONUS Regional Headquarters, and Honolulu, HI**REQUIRED ITEMS**

Items included in the PRC provided modification kit	Available locally
? Two CODEX 3262 Dual-Dial Modem Cards ? Four RJ-11 to RJ-11 TELCO Patch Cables ? Four RS-232 Data Cables ? Installation Procedures ? Site Receiving Report	? Electrostatic wrist strap

**AFFECTED SITES**

:

Weather Forecast Offices		Regional Headquarters
Eastern Region	Central Region	
Portland, ME (GYX)	Bismarck, ND (BIS)	Eastern Regional Headquarters
State College, PA (CTP)	Indianapolis, IN (IND)	Central Regional Headquarters
Charleston, WV (RLX)	Chicago, IL (LOT)	Southern Regional Headquarters
Wakefield, VA (AKQ)	Cheyenne, WY (CYS)	
Boston, MA (BOX)	Omaha, NE (OAX)	Western Regional Headquarters
Southern Region	Topeka, KS (TOP)	
Mobile, AL (MOB)	Western Region	
Jackson, MS (JAN)	Los Angeles, CA (LOX)	
Ft. Worth, TX (FWD)	Seattle, WA (SEW)	
Knoxville, TN (MRX)	Portland, OR (PQR)	
Midland, TX (MAF)	Salt Lake City, UT (SLC)	
Pacific Region		
Honolulu, HI (HFO)	Phoenix, AZ (PSR)	

## BACKGROUND

This procedure describes the modular modem card installations, the TELCO Patch Panel to Modem Nest Backplane patch cable installations, and the Modem Nest to LDAD Terminal Server data cable installations. For reference purposes, the AWIPS AS2 rack (rack # 4) contains the Modem Nest and the LDAD rack (rack # 7) contains the Terminal Server. **So that PRC engineering assistance is available, the Electronic Systems Analysts are asked to perform the installation between the hours of 8:00 AM and 5:00 PM EDT.**

### A. PROCEDURE

1. Locate the box containing the Modular Modem Cards, the RJ-11 to RJ-11 patch cables and the RS-232 data cables.
2. Open the front door of the Modem Nest and remove the filler panels from slots 9 through 13 (figure 1). Break off and discard the two end panels and replace the three remaining panels over slots 9 through 11.

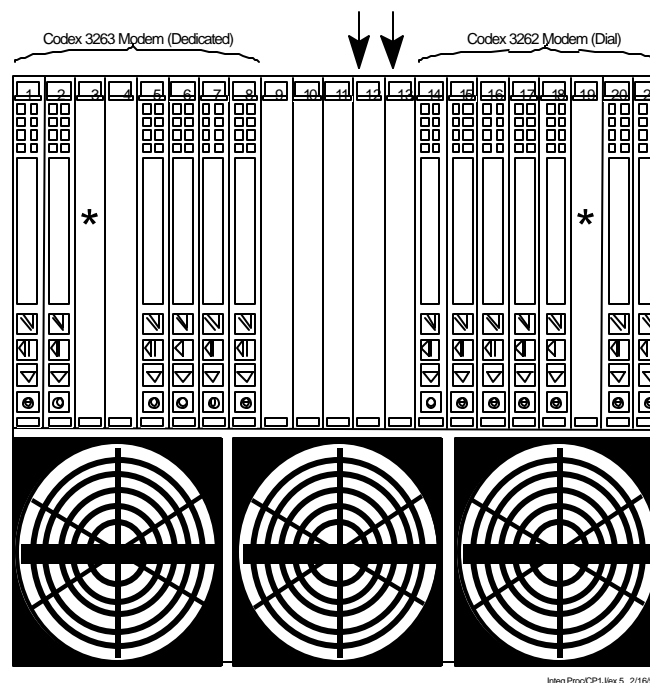


Figure 1: AWIPS/LDAD Modem Nest (Front)

3. Remove the new modem cards from their protective packaging and insert them into slots 12 and 13 of the AWIPS/LDAD Modem Nest.
4. Configure the modems in accordance with the instructions given in AWIPS System Administration Note 6 located at the following URL:  
[http://www.oso3.nws.noaa.gov/awip\\_new.htm](http://www.oso3.nws.noaa.gov/awip_new.htm)
5. After the modems have been configured, close the front door of the Modem Nest.

6. Using the provided RJ-11 to RJ-11 patch cables, connect the TELCO Patch Panel to the Modem Nest backplane using the chart below.

Patch Panel 1 Port 23	Modem Nest Backplane Port B13
Patch Panel 1 Port 24	Modem Nest Backplane Port A13
Patch Panel 1 Port 7	Modem Nest Backplane Port B12
Patch Panel 1 Port 8	Modem Nest Backplane Port A12

7. Install RS-232 cables to the LDAD rack in accordance with the chart below.

LDAD terminal server, port 14	Modem nest, modem port A12
LDAD terminal server, port 13	Modem nest, modem port B12
LDAD terminal server, port 12	Modem nest, modem port A13
LDAD terminal server, port 11	Modem nest, modem port B13

8. Configure the LDAD Terminal Server ports in accordance with AWIPS System Administration Note 6 located at the following URL:  
[http://www.oso3.nws.noaa.gov/awip\\_new.htm](http://www.oso3.nws.noaa.gov/awip_new.htm)

This completes the LDAD Dual-Dial Modem Cards and Cables Installation Procedure.

## **B. REPORTING MODIFICATION**

Target date for LDAD Dual-Dial Modem Cards and Cables Installation shall be coordinated with the AWIPS focal point or the Meteorologist-in-Charge. Report the completed modification on WS-Form A-26, Engineering Management Reporting System, according to the instructions in EHB-4, part 2, using reporting code AWIPS.

## **C. TECHNICAL ASSISTANCE**

Please refer any technical questions regarding this note to Franz Zichy (W/OSO321) at 301-713-1833 x128. For assistance with the installation procedures please call: Tom Jackson (PRC) at (703) 556-3567.

John McNulty  
Chief, Engineering Division

WAFB, CA 94503		REFERENCE ONLY This document contains information that is not to be released to the public. INFORMATION CONTAINED HEREIN IS UNCLASSIFIED				REPORT NUMBER G 49978		
<b>ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD</b>								
<b>General Information</b>		1. Operator 11 / 15 / 99	2. Date 0900	3. Locality JMM	4. Equipment (Model and) <input checked="" type="radio"/> Ground Use <input type="radio"/> Aerial Use	5. Type <input type="radio"/> Tool <input checked="" type="radio"/> Not Applicable	6. Location 11 / 15 / 99	7. Time 1100
8. Remarks Perform Modification I.A.W. AWPS System Modification Note 1								
<b>Equipment Information</b>		9. Subject CTP	10. Description AWPS	11. Serial Number 001	12. IM M	13. AT M	14. Locality 999	
15. EQUIPMENT OPERATIONAL STATUS INDEX		16. Fully Operational <input type="checkbox"/>	17. Inoperative <input type="checkbox"/>	18. Switch Operation <input type="checkbox"/>	19. All Tests 200	20. Location Code <input type="checkbox"/>	21. Alt. Item <input type="checkbox"/>	
<b>13. Parts Failure Information</b>							<b>14. Work Load Information</b>	
1. Order #	2. ASN	3. P/N	4. IM	5. AT	6. Item Mol.	7. Qty	8. Remarks	
1	R400-41A2A4	5855-01-377-7114					a. Failure	
2							b. Not Failure	
3							c. Repair	
4							d. Misc	
5							e. Comments	
<b>Miscellaneous Information</b>		19. Other Remarks/Comments Installed 2 MODMX Modern Cards, 178LCO Patch Cable and Data Cables I.A.W. AWPS System Mod Note 1.					20. Remarks JMM	
17. SPECIAL UNITARY REPORTING		18. MODX IN 1	19. MODX OUT 111500	20.	21.		22.	
18. CONFIGURATION REPORT REQUIRED (check if required)		23. Reason	24. Modification of Data or Test Plan				25. Remarks (if any)	